Index to Volume I.

Abbott, C. C. Recent Archæological Explorations in the Valley of the Delaware. (Abstract). - - - - - - - - - 205

Acknowledgments. - - - - - - - - 101, 209, 315, 423, 863

Adams, Frank D. On the Typical Laurentian Area of Canada. - - - 325

Analytical Abstracts of Current Literature.

A New Tæniopteroid Fern and its Allies. David White. - - 419

The Age of the Earth. Clarence King. - - - - - 202

The Age of the Earth. Warren Upham. - - - - - 203

The Catskill Delta in the Post-Glacial Hudson Estuary. W. M. Davis. 97

The Climate of Europe during the Glacial Epoch. Clement Reid. - 100

Conditions of Appalachian Faulting. Bailey Willis and C. Willard Hayes. - - - - - - - - - - 861

Continental Problems. G. K. Gilbert. - - - - - 204

The Correlation of Moraines with Raised Beaches of Lake Erie. Frank Leverett. - - - - - - - - - - 99

Deep Sea Sounding. A. S. Barker. - - - - - 207

The Drainage of the Bernese Jura. A. F. Foerste. - - - 206

Geographic Development of the Eastern Part of the Mississippi Drainage System. Louis G. Westgate. - - - - - - 420

Geological Survey of Alabama. Bulletin 4. C. W. Hayes. - - 98

Measurement of Geological Time. T. Mellard Reade. - - 205

Observations and Experiments on the Fluctuations in the Level and Rate of Movement of Ground-water. F. H. King. - - - 208

On a New Order of Gigantic Fossils. Edwin H. Barbour. - - 421

On the Glacial Period and the Earth Movement Hypothesis. James Geikie. - - - - - - - - - - 100

Rainfall Types of the United States. Gen. A. W. Greeley. - - 419

Recent Archæological Explorations in the Valley of the Delaware. Chas. C. Abbott. - - - - - - - - 205

Studies in Structural Geology. Bailey Willis. - - - 96

Summary of Current Pre-Cambrian North American Literature, with Comments. C. R. Van Hise. - - - - - 304, 532

The Sub-glacial Origin of Certain Eskers. W. M. Davis. - - 95

Ueber Geröll-Thonschiefer glacialen Ursprungs in Kulm des Frankenwaldes. Ernst Kalkowsky. - - - - - - - 862

The Vertical Relief of the Globe. Hugh Robert Mill. - - 422

Andes. The Volcanic Rocks of the Andes. J. P. Iddings. - - - 164

Anthracite. On the Origin of Pennsylvania Anthracite. John J. Stevenson. 677

87585

JUN 11 1902

Archean. On the Pre-Cambrian Rocks of Great Britain. Sir Archibald Geikie. - - - - - - - - - - - 1
Bäckström, Helge. Causes of Magmatic Differentiation. - - - - 773
Baraboo. Some Dynamic Phenomena shown by the Baraboo Quartzite Ranges of Central Wisconsin. C. R. Van Hise. - - - - - 347
Barbour, Edwin H. On a New Order of Gigantic Fossils. (Abstract). - 421
Barker, A. S. Deep-Sea Sounding. (Abstract). - - - - 207
Bascom, F. The Structures, Origin, and Nomenclature of the Acid Volcanic Rocks of South Mountain. - - - - - - - 813
Basic Massive Rocks of the Lake Superior Region. W. S. Bayley. - - 433, 688
Bayley, W. S. Sketch of the Present State of Knowledge concerning the Basic Massive Rocks of the Lake Superior Region. - - - 587
The Basic Massive Rocks of the Lake Superior Region. - - 433, 688
Branner, John C. The Supposed Glaciation of Brazil. - - - - - 753
Brazil. The Supposed Glaciation of Brazil. John C. Branner. - - 753
Canada. On the Typical Laurentian Area of Canada. Frank D. Adams. 325
Causes of Magmatic Differentiation. Helge Bäckström. - - - 773
Chamberlin, T. C. The Horizon of Drumlin, Osar, and Kame Formation. 255
The Nature of the Englacial Drift of the Mississippi Basin. - 47
Connecticut. Some Rivers of Connecticut. Henry B. Kummel. - - 371
The Geological Structure of the Housatonic Valley Lying East of Mount Washington. Plates V, VI, VII. Wm. H. Hobbs. - - - 780
Consanguinity of Eruptive Rocks. Orville A. Derby. - - - 597
Contact between the Lower Huronian and the Underlying Granite in the Republic Trough, near Republic, Michigan. Henry L. Smyth. - - 268
Cordilleran Mesozoic Revolution. Andrew C. Lawson. - - - 579
Davis, Wm. M. Reviews,—Correlation Papers. The Newark System. I. C. Russell. - - - - - - - - - 740
Bodengestaltende Wirkungen der Eiszeit. Dr. Aug. Böhm. - 859
The Catskill Delta in the Post-Glacial Hudson Estuary. (Abstract). 97
The Sub-glacial Origin of Certain Eskers. (Abstract). - - 95
Derby, Orville A. A Study in Consanguinity of Eruptive Rocks. - - 597
Dissected Volcano of Crandall Basin, Wyoming. Joseph P. Iddings. - 606
Drumlins. The Horizon of Drumlin, Osar, and Kame Formation. T. C. Chamberlin. - - - - - - - - - 255
EDITORIALS.
"The Beginning of Man and the Age of the Race." T. C. C. - - 845
"Man and the Glacial Epoch." R. D. S. - - - - 198
Englacial Drift. T. C. C. - - - - - - - 521
Errors as to the Champlain Depression. T. C. C. - - - 200
The Geological Atlas of the U. S. G. S. J. P. I. - - - 296
The Geological Congress of the World's Congress Auxiliary. T. C. C. 88
"New England and the Upper Mississippi Basin in the Glacial Period." T. C. C. - - - - - - - - - 847
Notes on the Meetings of the Geological Society of America, of the American Association at Madison, and of the Geographical Congress at Chicago. T. C. C. - - - - - - - - 620

Nottingham Meeting of the British Association for the Advancement of Science. J. P. I. - - - - - - - - 737
Oscillations of the Earth's Crust. T. C. C. - - - - - 298
The Scope of the Journal of Geology. T. C. C. - - - - 85
The Summer Meeting of the Geological Society of America. T. C. C. 409
Englacial Drift. The Nature of the Englacial Drift of the Mississippi Basin. T. C. Chamberlin. - - - - - - - - 47
Europe. On the Glacial Succession in. James Geikie. Review by R. D. Salisbury. - - - - - - - - - - 90
Foerste, A. E. The Drainage of the Jura. (Abstract). - - - - 206
Geikie, Sir Archibald. On the Pre-Cambrian Rocks of Great Britain. - 1
Geikie, James. On the Glacial Period and the Earth Movement Hypothesis. (Abstract). - - - - - - - - - - 100
On the Glacial Succession in Europe. Review by R. D. Salisbury. - 90
Genetic Relationships among Igneous Rocks. Studies for Students. J. P. Iddings. - - - - - - - - - - 833
Geological Time as Indicated by the Sedimentary Rocks of North America. C. D. Walcott. - - - - - - - - - 639
Geological Structures of the Mount Washington Mass of the Taconic Range. Wm. H. Hobbs. - - - - - - - - 717
Geology. As a Part of a College Curriculum. H. S. Williams. - - 38
Gilbert, G. K. Continental Problems. (Abstract). - - - - 204
Glacial Succession in Ohio. Frank Leverett. - - - - - 129
Glacial Epochs. Distinct Glacial Epochs and the Criteria for their Recognition. Studies for Students. Rollin D. Salisbury. - - 61
Glacial Man. Are There Traces of Glacial Man in the Trenton Gravels? W. H. Holmes. - - - - - - - - - 15
Traces of Glacial Man in Ohio. Plate II. W. H. Holmes. - 147
Glaciers. The Las Animas Glacier. George H. Stone. - - - 471
Malaspina Glacier. I. C. Russell. - - - - - - 219
Gordon, C. H. Reviews:—Iowa Geological Survey, Vol. I. Samuel Calvin. 747
Great Britain. On the Pre-Cambrian Rocks of. Sir Archibald Geikie. - 1
Greeley, Gen. A. W. Rainfall Types of the United States. (Abstract). - 419
Gulliver, F. P. The Newtonville Sand-Plain. - - - - - 803
Harker, Alfred. On the Migration of Material during the Metamorphism of Rock Masses. - - - - - - - - 574
Hayes, C. W. Geological Survey of Alabama. Bulletin 4. (Abstract). - 98
(and Bailey Willis) Conditions of Appalachian Faulting. (Abstract). 861
Hobbs, Wm. H. On the Geological Structure of the Mount Washington Mass of the Taconic Range. Plates III., IV. - - - - - 717
The Geological Structure of the Housatonic Valley Lying East of Mount Washington. - - - - - - - - - 780
Holmes, W. H. Are there Traces of Glacial Man in the Trenton Gravels? 15
Traces of Glacial Man in Ohio. Plate II. - - - - - 147
Housatonic. Geological Structure of the Housatonic Valley Lying East of Mount Washington. Plates V, VI, VII. Wm. H. Hobbs. - - 780
Iddings, Joseph P. A Dissected Volcano of Crandall Basin, Wyoming. - 606

Iddings Joseph P. Genetic Relationships among Igneous Rocks. Studies for Students. - - - - - - - - - 833
Reviews:—Eruptive Rocks of Montana—Waldemar Lindgren. A Sodalite-Syenite and other Rocks from Montana—W. Lindgren. Acmite-Trachyte from the Crazy Mountains, Montana—J. E. Wolff. - - 634
The Volcanic Rocks of the Andes. - - - - - - 164
Iron. The Chemical Relation of Iron and Manganese in Sedimentary Rocks. R. A. F. Penrose, Jr. - - - - - - - 356
Kalkowsky, Ernest. Ueber Geröll-Thonschiefer glacialen Ursprungs in Kulm des Frankenwaldes. (Abstract). - - - - - - 862
Kames. The Horizon of Drumlin, Osar, and Kame Formation. T. C. Chamberlin. 525
King, Clarence. The Age of the Earth. (Abstract). - - - - 202
King, F. H. Observations and Experiments on the Level and Rate of Movement of Ground-water. (Abstract). - - - - - 208
Knowlton, F. H. Reviews:—Cretaceous Fossil Plants from Minnesota. By Leo Lesquereux. - - - - - - - - 302
On the Organization of the Fossil Plants of the Coal-Measures. By W. C. Williamson. - - - - - - - - 303
Kummel, Henry B. Some Rivers of Connecticut. - - - - 371
Lake Superior. An Historical Sketch of the Lake Superior Region to Cambrian Time. C. R. Van Hise. Plate I. - - - - - 113
Sketch of the Present State of Knowledge concerning the Basic Massive Rocks of the Lake Superior Region. W. S. Bayley. - 587
The Basic Massive Rocks of the Lake Superior Region. W. S. Bayley. 433, 688
Las Animas Glacier. George H. Stone. - - - - - - 471
Laurentian. Geological History of the Laurentian Basin. Studies for Students. Israel C. Russell. - - - - - - - - - 394
On the Typical Laurentian Area of Canada. Frank D. Adams. - 325
Lawson, Andrew C. The Cordilleran Mesozoic Revolution. - - 579
Lead. Notes on the Lead and Zinc Deposits of the Mississippi Valley and the Origin of the Ores. Arthur Winslow. - - - - - 612
Le Conte, Joseph. Theory of the Origin of Mountain Ranges. - - 542
Leverett, Frank. The Correlation of Moraines with Raised Beaches of Lake Erie. (Abstract). - - - - - - - - - 99
The Glacial Succession in Ohio. - - - - - - - - 129
Maine. The Osar Gravels of the Coast of Maine. Geo. H. Stone. - 246
Malaspina Glacier. I. C. Russell. - - - - - - - 219
Manganese. The Chemical Relation of Iron and Manganese in Sedimentary Rocks. R. A. F. Penrose, Jr. - - - - - - - 356
A Pleistocene Manganese Deposit near Golconda, Nevada. R. A. F. Penrose, Jr. - - - - - - - - - 275
Melilite-Nepheline-Basalt and Nepheline-Basanite from Southern Texas. A. Osann. - - - - - - - - - 341
Metamorphism. On the Migration of Material during the Metamorphism of Rock Masses. Alfred Harker. - - - - - - 574
Migration of Material during the Metamorphism of Rock Masses. Alfred Harker. 574

Mill, Hugh Robert. The Vertical Relief of the Globe. (Abstract). - 422
Mississippi. The Nature of the Englacial Drift of the Mississippi Basin. T. C. Chamberlin. - - - - - - - - 47
Mountains. Theory of the Origin of Mountain Ranges. Joseph Le Conte. - 542
Mount Washington. On the Geological Structure of the Mount Washington Mass of the Taconic Range. Wm. H. Hobbs. - - - 717
Newtonville Sand-Plain. F. P. Gulliver. - - - - - - 803
Notes on the State Exhibits in the Mines and Mining Building at the World's Columbian Exposition, Chicago. R. A. F. Penrose, Jr. - - 457
Ohio. The Glacial Succession in Ohio. Frank Leverett. - - 129
Traces of Glacial Man in Ohio. W. H. Holmes. Plate II. - - 147
Origin of Pennsylvania Anthracite. John J. Stevenson. - - - 677
Osann, A. Melilite-Nepheline-Basalt and Nepheline-Basanite from Southern Texas. - - - - - - - - - - 341
Osars. The Horizon of Drumlin, Osar, and Kame Formation. T. C. Chamberlin. - - - - - - - - - - 255
The Osar Gravels of the Coast of Maine. Geo. H. Stone. - 246
Penrose, R. A. F., Jr. The Chemical Relation of Iron and Manganese in Sedimentary Rocks. - - - - - - - - - 356
A Pleistocene Manganese Deposit near Golconda, Nevada. - 275
Notes on the State Exhibits in the Mines and Mining Building at the World's Columbian Exposition, Chicago. - - - - - 457
Review:—The Mineral Industry, its Statistics, Technology and Trade in the United States and other Countries. Richard P. Rothwell. - 414
Pleistocene Manganese Deposit near Golconda, Nevada. R. A. F. Penrose, Jr. 275
Poikilitic. On the use of the Terms Poikilitic and Micropoikilitic in Petrography. G. H. Williams. - - - - - - - - 176
Pre-Cambrian. An Historical Sketch of the Lake Superior Region to Cambrian Time. C. R. Van Hise. Plate I. - - - - - 113
On the Pre-Cambrian Rocks of Great Britain. Sir Archibald Geikie. 1
Reade, T. Mellard. Measurement of Geological Time. (Abstract). - 205
Reid, Clement. The Climate of Europe during the Glacial Epoch. (Abstract). 100
REVIEWS:
Bodengestaltende Wirkungen der Eiszeit, Dr. Aug. Böhm; by Wm. M. Davis. - - - - - - - - - - 859
Correlation Essays, Archean and Algonkian, C. R. Van Hise; by R. D. Salisbury. - - - - - - - - - - 525
Correlation Papers. The Newark System, Israel C. Russell; by Wm. M. Davis. - - - - - - - - - - 740
Cretaceous Fossil Plants from Minnesota, Leo Lesquereux; by F. H. Knowlton. - - - - - - - - - 302
Crystalline Rocks from the Andes; Untersuchungen an altkrystallinen Schiefergesteinen aus dem Gebiete der argentinischen Republik, B. Kühn. Untersuchung argentinischen Pegmatite, etc., P. Sabersky. Untersuchungen an argentinischen Graniten, etc., J. Romberg; by George H. Williams. - - - - - - - 411
Iowa Geological Survey, Vol. I., Samuel Calvin; by C. H. Gordon. - 747

Eruptive Rocks of Montana, Waldemar Lindgren. A Sodalite-Syenite and other Rocks from Montana, W. Lindgren. Acmite-Trachyte from the Crazy Mountains, Montana, J. E. Wolff; by Joseph P. Iddings. - 634
The Mineral Industry, its Statistics, Technology and Trade in the United State sand other Countries, Richard P. Rothwell; by R. A. F. Penrose, Jr. 414
Monographs of the United States Geological Survey. Vol. XVII. The Flora of the Dakota Group, Leo Lesquereux; by David White. - 300
On the Organization of the Fossil Plants of the Coal-Measures, W. C. Williamson; by F. H. Knowlton. - - - - - 303
Recent Contributions to the Subject of Dynamometamorphism from the Alps. A. Heim, C. Schmidt, L. Milch, M. P. Termier; by Geo. H. Williams. - - - - - - - - - 850
Text-book of Comparative Geology, E. Kayser; by R. D. Salisbury. - 745
Text-Book of Geology. Sir Archibald Geikie; by R. D. Salisbury, - 856
Rivers. Some Rivers of Connecticut. Henry B. Kummel. - - - 371
Russell, Israel C. Geological History of the Laurentian Basin. Studies for Students. - - - - - - - - - 394
Malaspina Glacier. - - - - - - - - 219
Salisbury, Rollin D. Distinct Glacial Epochs and the Criteria for their Recognition. Studies for Students. - - - - - - 61
Reviews:—On the Glacial Succession in Europe. James Geikie. - 90
Correlation Essays, Archean and Algonkian. C. R. Van Hise. - 525
Text-book of Comparative Geology. E. Kayser. - - - 745
Text-Book of Geology. Sir Archibald Geikie. - - - 856
Sand-Plain of Newtonville. F. P. Gulliver. - - - - - 803
Sedimentary Rocks. Geologic Time as Indicated by the Sedimentary Rocks of North America. Chas. D. Walcott. - - - - - 639
Sketch of the Present State of Knowledge concerning the Basic Massive Rocks of the Lake Superior Region. W. S. Bayley. - - - 587
Smyth, H. L. A Contact between the Lower Huronian and the Underlying Granite in the Republic Trough, near Republic, Michigan. - - 268
South Mountain. The Structures, Origin, and Nomenclature of the Acid Volcanic Rocks of South Mountain. F. Bascom. - - - - 813
Stevenson, John J. On the Origin of the Pennsylvania Anthracite. - 677
Stone, Geo. H. The Las Animas Glacier. - - - - - 471
The Osar Gravels of the Coast of Maine. - - - - 246
STUDIES FOR STUDENTS:
Conditions of Sedimentary Deposition. Bailey Willis. - - - 476
Distinct Glacial Epochs and the Criteria for their Recognition. Rollin D. Salisbury. - - - - - - - 61
The Elements of the Geological Time-Scale. H. S. Williams. - - 283
Genetic Relationships among Igneous Rocks. J. P. Iddings. - 833
Geological History of the Laurentian Basin. Israel C. Russell. - 394
The Making of the Geological Time-Scale. H. S. Williams. - 180
Time-Scale. The Elements of the Geological Time-Scale. Studies for Students. H. S. Williams. - - - - - - 283

The Making of the Geological Time-Scale. Studies for Students. H. S. Williams. - - - - - - - - - 180
Trenton Gravels. Are there Traces of Glacial Man in the Trenton Gravels? W. H. Holmes. - - - - - - - - 15
Upham, Warren. The Age of the Earth. (Abstract). - - - 203
Van Hise, C. R. An Historical Sketch of the Lake Superior Region to Cambrian Time. Plate I. - - - - - - - 113
Some Dynamic Phenomenon shown by the Baraboo Quartzite Ranges of Central Wisconsin. - - - - - - - - - 347
Summary of Pre-Cambrian North American Literature. Abstract, with comments. - - - - - - - - 304, 532
Volcanic Rocks. The Volcanic Rocks of the Andes. J. P. Iddings. - - 164
The Structures, Origin, and Nomenclature of the Acid Volcanic Rocks of South Mountain. F. Bascom. - - - - - - - 813
Walcott, C. D. Geologic Time, as Indicated by the Sedimentary Rocks of North America. - - - - - - - - - 639
Westgate, Louis G. Geographic Development of the Eastern Part of the Mississippi Drainage System. (Abstract). - - - - - 420
White, David. A New Tæniopteroid Fern and Its Allies. (Abstract). - 419
Review. Monographs of the United States Geological Survey, Vol. XVII. The Flora of the Dakota Group, by Leo Lesquereaux. - - 300
Williams, G. H. On the Use of the Terms Poikilitic and Micropoikilitic in Petrography. - - - - - - - - - 176
Reviews. Crystalline Rocks from the Andes. Reports of B. Kühn, P. Sabersky, J. Romberg. - - - - - - - 411
Recent Contributions to the Subject of Dynamometamorphism from the Alps. A. Heim, C. Schmidt, L. Milch, M. P. Termier. - - 580
Williams, H. S. Elements of the Geological Time-Scale. Studies for Students. - - - - - - - - - - 283
Geology as a Part of a College Curriculum. - - - - - 38
Making of the Geological Time-Scale. Studies for Students. - 180
Willis, Bailey. Conditions of Sedimentary Deposition. Studies for Students. 476
Conditions of Appalachian Faulting (C. W. Hayes). (Abstract). - 861
Studies in Structural Geology. (Abstract). - - - - - 96
Winslow, Arthur. Notes on the Lead and Zinc Deposits of the Mississippi Valley and the Origin of the Ores. - - - - - - 612
Wisconsin. Some Dynamic Phenomena Shown by the Baraboo Quartzite Ranges of Central Wisconsin. C. R. Van Hise. - - - 347
Wyoming. A Dissected Volcano of Crandall Basin, Wyoming. Joseph P. Iddings. - - - - - - - - - - 606
Zinc. Notes on the Lead and Zinc Deposits of the Mississippi Valley and the Origin of the Ores. Arthur Winslow. - - - - 612

GR
CWP